IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

10/549,743

Applicant (s)

Craig N. Schubert, et al. September 19, 2005

Filed TC/A.U.

Unknown

Examiner

Unknown

Title

IMPROVED COMPOSITION AND METHOD FOR REMOVAL OF

CARBONYL SULFIDE FROM ACID GAS CONTAINING SAME

Docket No.

62212A

Customer No.

00109

"Express Mail" mailing label number

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Date of Deposit January 31, 2006

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO/SB/08a.

The cited U.S. patents and patent application publications are listed on Form PTO/SB/08a. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,

Paul D. Hayhurst

Registration No. 30,180 Phone: 989-636-9373

P. O. Box 1967 Midland, MI 48641-1967

PDH/jec

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Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) of 3

Complete if Known				
Application Number	10/549,743			
Filing Date	September 19, 2005			
First Named Inventor	Craig N. Schubert			
Art Unit	Not Assigned			
Examiner Name	Not Assigned			
Attorney Docket Number	62212A			

Examiner Initials*	Cite No.1	Document Number	Publication Date (MM-DD-YYYY)	NAME of Patentee or Applicant of	Pages, Columns, Lines, Where Relevan
	No.'	Number-Kind Code ² (# known)	(IVIIVI-DD-TTTT)	Cited Document	Passages or Relevant Figures Appear
		US-4,482,529	Nov. 13, 1984	Chen, et al.	
		US-4,524,050	Jun. 18, 1985	Chen, et al.	
		US-4,749,555	Jun. 7, 1988	Bush	
		US-6,277,345 B1	Aug. 21, 2001	Stankowiak, et al.	
		US-3,989,811 B1	Nov. 2, 1976	Hill	
		US-5,413,627	May 9, 1995	Landeck, et al.	
		US-4,980,140	Dec. 25, 1990	Souby	
		US-3,966,875	Jun. 29, 1976	Bratzler, et al.	
		US-4,336,233	Jun. 22, 1982	Appl, et al.	7.1.1
		US-5,589,149	Dec. 31, 1996	Garland, et al.	
		US-3,837,143	Sept. 24, 1974	Sutherland, et al.	
		US-3,284,531	Nov. 8, 1966	Shaw, et al.	
		US-4,504,449	Mar. 12, 1985	Doerges, et al.	
		US-4,532,116	Jul. 30, 1985	Doerges, et al.	
		US-6,102,987	Aug. 15, 2000	Gross, et al.	
		US-3,737,392	Jun. 5, 1973	Ameen, et al.	
		US-3,824,766	Jul. 23, 1974	Valentine, et al.	
* ************************************		US-4,044,100	Aug. 23, 1977	McElroy	
		US-4,581,154	Apr. 8, 1986	Kutsher, et al.	
		US-4,741,745	May 3, 1988	Kadono, et al.	
		US-4,946,620	Aug. 7, 1990	Kadono, et al.	
		US-6,090,356?	Jul. 18, 2000	Jahnke, et al.	
		US-4,895,670	Jan. 23, 1990	Sartori, et al.	· · · · · · · · · · · · · · · · · · ·
		US- 4,623,371	Nov. 18, 1986	Mehra	<u> </u>
		US-4,409,199	Oct. 11, 1983	Blytas	
		US-4,483,833	Nov. 1984	Stogryn, et al.	
		US-4405585	Sep. 20, 1983	Sartori, et al.	100
		US-3965244	Jun. 22, 1976	Sykes, Jr.	,

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Signature		Considered	1

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10/549,743

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INFORMATION DISCLOSURE

Filing Date September 19, 2005 STATEMENT BY APPLICANT First Names Inventor Craig N. Schubert Art Unit Not Assigned (Use as many sheets as necessary) Not Assigned **Examiner Name** Attorney Docket Number Sheet 2 of 3 62212A

Application Number

	No. ¹	Country Code ³ - Number-Kind	Publication Date (MM-DD- YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	Τ6
		Code ⁵ (if known)			Figures Appear	
		WO 98/07502	Feb. 26, 1998	Van Den Brink, et al		
		EP 0770420 A2	May 2, 1997	Burns, et al.		
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BY APPLICANT (Use as many sheets as necessary)		Filing Date	September 19, 2005	
		First Named Inventor	Craig N. Schubert	
		Art Unit	Not Assigned	
			Examiner Name	Not Assigned
Sheet 3	62212A	3	Attorney Docket Number	62212A

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т6
		DATABASE WPI Section Ch, Week 198312, Derwent Publications Ltd., London, GB; Class J01, AN 1983-28999K; XP002298099 & SU 927 282 B (NATURAL GAS PROCESS) 15 May 1982 (1982-05-15) abstract	
		Gwinner, M., Weiss, H., Krumbeck, M., Mertikat, H., "Fuel Desulfurization & Sulfur Recovery for IGCC Power Plants," Presented @ Gasification Tech. in Practice, Feb., '97, Assolombarda, Milan, Italy	
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¹Applicant's unique citation designation number (option). ²Applicant is to place a check mark here in English language Translation is attached.

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